

**LineUp With Math™ Alignment**  
**High School Mathematics Core Content for Assessment**  
**version 4.0 October 2005**

**Number Properties and Operations**

**Estimation**

**Content Statement**

**Estimation**

*MA-11-1.2.1a*

*Students will estimate solutions to problems with real numbers (including very large and very small quantities) in both real world and mathematical situations, and use the estimations to check for reasonable computational results.*

**LineUp With Math™ Activities**

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

**Ratios and Proportional Reasoning**

**Content Statement**

**MA-11-1.4.1**

**Students will apply ratios, percents, and proportional reasoning to solve real-world problems (e.g., those involving slope and rate, percent of increase and decrease) and will explain how slope determines a rate of change in linear functions representing real-world problems.**

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**LineUp With Math™ Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

**Measurement**

**Systems of Measurement**

**Content Statement**

*MA-11-2.2.1a*

*Students will continue to apply to both real world and mathematical situations U.S. customary and metric systems of measurement.*

**LineUp With Math™ Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.